

ACRONYM and ABBREVIATION DIRECTORY for ITS STANDARDS

Note: This directory was developed by the Jet Propulsion Laboratory for the U.S. Department of Transportation. It focuses on terms, proper names, and names of organizations associated with ITS standards; it is not intended to be an exhaustive reference document for the entire ITS field. Definitions listed here come from a variety of sources, including standards fact sheets and other standards documents and reports.

AAR	Association of American Railroads
AASHTO	American Association of State Highway and Transportation Officials
ACC	For “adaptive cruise control”
ACN	For “automatic collision notification”
ADIS	For “advanced driver information system”
ADUS	Archived Data User Service
AHS	For “automated highway system” or “advanced highway system”
ALI	For “automatic location identification”
ANI	For “automatic number identification”
ANSI	American National Standards Institute
AP	For “application profile”
API	For “application program interface”
APL	(The Johns Hopkins University) Applied Physics Laboratory
APTA	American Public Transit Association
APTS	For “advanced public transportation systems”
AREMA	American Railway Engineering and Maintenance of Way Association
ARINC	Aeronautical Radio Incorporated
ARSI	For “automated roadside safety inspection”
ARTS	For “advanced rural transportation systems”

ASC	Accredited Standards Committee (of ANSI)
ASC	For “actuated signal controller”
ASCE	American Society of Civil Engineers
ASLRRA	American Short Line and Regional Railroad Association
ASN.1	Abstract Syntax Notation-1
ASTM	American Society for Testing and Materials
ATA	American Trucking Association
ATC	For “advanced transportation controller”
ATCS	For “advanced train control system”
ATIS	For “advanced traveler information systems”
ATMS	For “advanced traffic management systems”
AVC	For “automated vehicle classification”
AVCS	For “advanced vehicle control systems”
AVI	For “automatic vehicle identification”
AVL	For “automatic vehicle location”
AVLS	For “automatic vehicle location system”
AVM	For “automatic vehicle monitoring”
BER	For “basic encoding rules”
C2C	For “center-to-center”
C2F	For “center-to-field”
CAD	For “computer-aided dispatch”
CalTrans	California Department of Transportation
CBTC	For “communications-based train control”
CCTV	For “closed circuit television”
CEMA	Consumer Electronics Manufacturers Association
CFR	Code of Federal Regulations

CMS	For “changeable message sign”
CORBA	For “common object request broker architecture”
CP	For “class profile”
CSA	Canadian Standards Association
CTAA	Community Transit Association of America
CVISN	For “commercial vehicle information systems and networks”
CVO	For “commercial vehicle operations”
DARC	For “data radio channel”
DATEX	For “data exchange”
DD	For “data dictionary”
DE	For “data element”
DGPS	For “differential global positioning system”
DISA	Data Interchange Standards Association
DMS	For “dynamic message sign”
DMV	For “department of motor vehicles”
DR	For “data registry”
DRGS	For “dynamic route guidance system”
DS	For “data set”
DSRC	For “dedicated short range communications”
DTF	Deployment Task Force (FHWA)
EBS	For “emergency broadcasting system”
EDI	For “electronic data interchange”
EFT	For “electronic funds transfer”
EIA	Electronics Industry Alliance
EMS	For “emergency management system”
EMS	For “emergency medical services”

ERTICO	European Road Transport Telematics Implementation Coordination Organization
ESS	For “environmental sensor station” or “environmental sensor system”
ETC	For “electronic toll collection”
ETS	For “emergency telephone system”
ETMCC	For “external traffic management center communication”
ETTM	For “electronic toll and traffic management”
FARS	Fatal Accident Reporting System (NHTSA)
FCC	Federal Communications Commission
FCW	For “front collision warning”
FHWA	Federal Highway Administration (of U.S. DOT)
FRA	Federal Railroad Administration (of U.S. DOT)
FSK	For “frequency shift keying”
FTP	For “file transfer protocol”
FTA	Federal Transit Administration (of U.S. DOT)
GDF	For “geographic data file”
GIS	For “geographic information system”
GPS	For “global positioning system”
HAR	For “highway advisory radio”
HAZMAT	For “hazardous materials”
HDLC	For “high-level data-link control”
HHI	For “highway-highway intersection”
HOV	For “high occupancy vehicle”
HPMS	Highway Performance Monitoring System (FHWA)
HRI	For “highway-rail intersection”
HSR	For “high speed rail”
HUD	For “head-up display”

ICC	For “intelligent cruise control”
IDB	For “ITS data bus”
IEEE	Institute of Electrical and Electronics Engineers
INCH	Implementing NTCIP Compliant Hardware
IP	For “internet protocol”
ISO	International Organization for Standardization
ISP	For “information service provider”
ISTEA	Intermodal Surface Transportation Efficiency Act (of 1991)
ITE	Institute of Transportation Engineers
ITS	For “intelligent transportation systems”
ITSA	Intelligent Transportation Society of America
ITU	International Telecommunications Union
IVHS	For “intelligent vehicle highway systems”
JPL	Jet Propulsion Laboratory
JPO	Joint Program Office (of FHWA)
LAN	For “local area networks”
LMS	For “location and monitoring service”
LRMS	For “location reference message specification”
MCMIS	Motor Carrier Management Information System
MIB	For “management information base”
MMI	For “man machine interface”
MPO	For “metropolitan planning organization”
MS	For “message set”
MULTI	Mark-up Language for Transportation Information
MUTCD	Manual on Uniform Traffic Control Devices
NAB	National Association of Broadcasters

NAWG	National Association of Working Groups (FHWA)
NEMA	National Electrical Manufacturers Association
NENA	National Emergency Number Association
NHI	National Highway Institute
NIST	National Institute of Standards and Technology
NTI	National Transit Institute
NHTSA	National Highway Traffic Safety Administration (of U.S. DOT)
NRC	National Research Council
NRSC	National Radio Systems Committee
NSF	National Science Foundation
NTCIP	National Transportation Communications for ITS Protocol
NTIA	National Telecommunications and Information Administration
NTSB	National Transportation Safety Board (of FHWA)
OER	For “octet encoding rules”
ORNL	Oak Ridge National Laboratory
OSI	For “open systems interconnection”
PCB	Professional Capacity Building (FHWA)
PCS	For “personal communications services”
PER	For “packed encoding rules”
PMPP	For “point-to-multipoint protocol”
PPP	For “point-to-point protocol”
PSAP	For “primary safety answering point”
PTC	For “positive train control”
RBDS	For “radio broadcast data system”
RDS	For “radio data system”
RPI	Railroad Progress Institute

RSE	For “roadside equipment”
RTCM	Radio Technical Commission for Maritime Services
RWIS	For “road weather information system”
SAE	Society of Automotive Engineers
SAFER	Safety and Fitness Electronic Records (FHWA)
SDO	For “standards development organization”
SIA	Security Industry Alliance
SNMP	For “simple network management protocol”
SSR	For “standard speed rail”
STIC	For “subcarrier traffic information channel”
STMF	For “simple transportation management framework”
STMP	For “simple transportation management protocol”
TCC	For “train control center”
TCIP	Transit Communication Interface Protocol
TCP	For “transmission control protocol”
TEA-21	Transportation Equity Act for the 21 st Century
TFTP	For “trivial file transfer protocol”
TIA	Telecommunications Industry Association
TMC	For “transportation management center” or “traffic management center”
TMDD	For “traffic management data dictionary”
TMS	For “transportation management system” or “traffic management system”
TOC	For “transportation operations center”
TRB	Transportation Research Board (National Research Council)
TS	For “transaction set”
TSC	Transit Standards Consortium
TSS	For “transportation sensor system”

U.S. DOT	United States Department of Transportation
U.S. TAG	U. S. Technical Advisory Group (to ISO Technical Committee)
VERTIS	Vehicle, Road and Traffic Intelligence Society
VIN	For “vehicle identification number”
VMS	For “variable message sign”
VPAS	For “vehicle proximity alert system”
VRC	For “vehicle roadside communications”
WIM	For “weigh in motion”

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